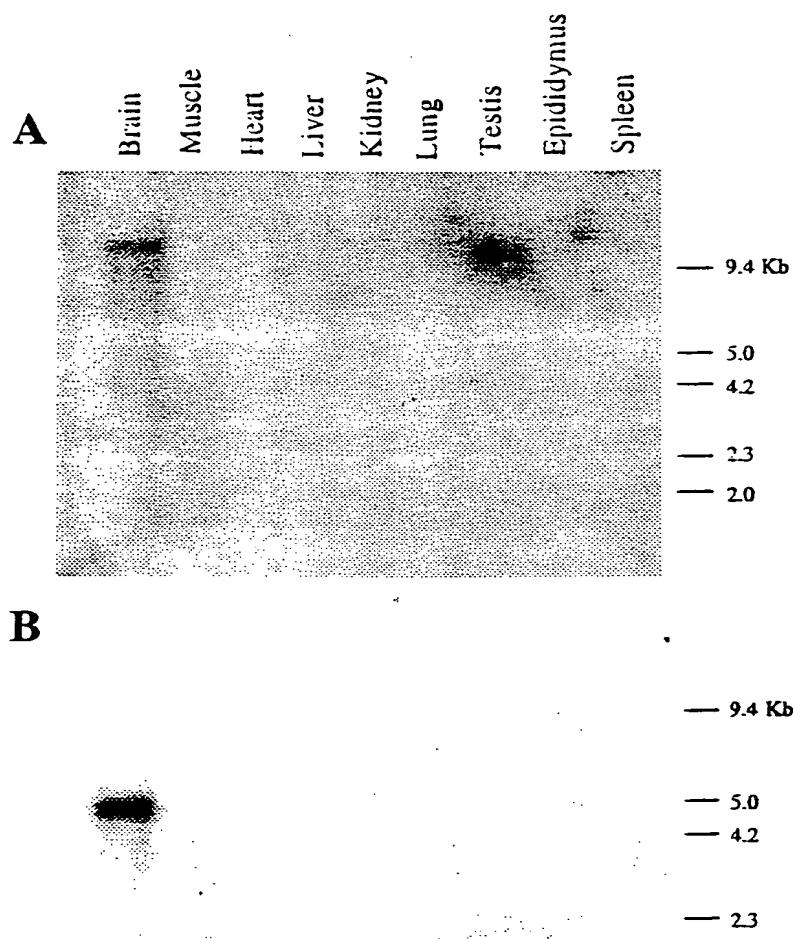


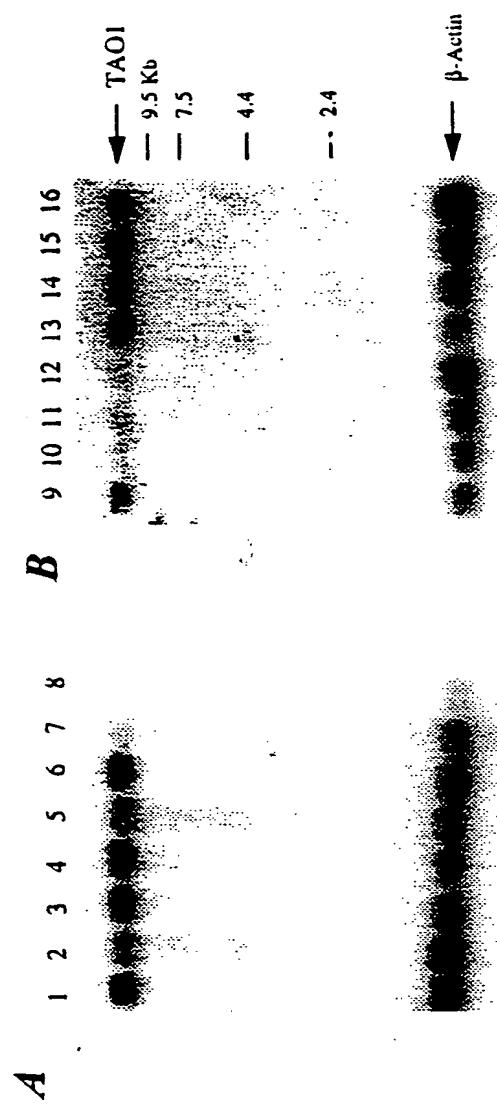
1 TCTCCAGTATGGTACATTATTTATCCATTITAGGACTCTGCCCTTACATACAGTGAACCCACCTTGGGATAGGAGTAAATTAGAAATCAGACACCTGACTGGTC
 115 ACCAGGATCCCATACTAACAGACCCAGCAGCTCAAGGACCTGAAATCCAGAGCTCTCTCTCAAGAGATCGGAAAATCTTACAGATCTCAGGAAATCGCCAT
 M P S T N R A G S L K D P E I A E L F F K Z D P E K I F T O L R E I G H 36
 229 GGGACCTTGGGACAGCTTCTTTCACAGAGATCTGCTTACTAAATGAACTGGTGGCCATCAGAAAATGCTTATAGTGGAAAGGACTCTCTCAGAAATGGAGGATATTATT
 G S F G A V Y P A R D V R T N E V V A I K K M S Y S G K I S E R K W Q D I I 74
 343 AAGCAAGTCAGTTCTACAAAGAATAAAACATCCAAACACTATAGAATAAAAGGCTGGCTTACTCTGACACACACGGCTGGCTTACAGATCGGAAATCTGAGGATCTCT
 K E V K F S Q R I K H P N S I T E K G C Y L E R E T A W L V M E Y C E G S A 112
 457 TCGGATTCTAGAGACTCTACAAAGCCATTACAGAGACTGGAAATGGAGGAATTACACATGGCTTCTCAGGATTAGCTTATTCACATCTCATACCATGATCCATAGA
 S D L E V H K K P L Q E V E I A A I T H G A L Q G L A E L H S H T M I H R 150
 571 GATATCAAAGCAGGAAATATCTCTGACAGAACCCAGCTGGAAACTTGGCTGACTTCTGATCTGCTTCTGATCTGCTCCCTCTGATCTGCTTCTGAGGACACCATATTG
 D I K A G N I L L T E P G Q V K L A D F G S A S M A S P A N S F V G T P Y W 188
 685 ATGGCCCAGAAGTAACTTTCGACATGAAACGACATATGATGCCAAAGTTGATGGCTCTCTGGAAATRACATGATGATGATGGGAGAGGAAACCCCTCTTATIT
 M A P E V I L A N D E G Q Y D G K V D V W S L G I T C I E L A E R K P P L F 266
 799 AATATCAATCCAATCAGTCGCTTATATCACATACCCAAATGAAATCCCTAACATACAGCTTATGAAATGGCTCTGATTTCTGAGGAACTTCTGCTCCAGAAA
 N M N A N S A L Y H I A Q N E S P T L Q S N E W S D Y F P N P V D S C L Q K 264
 913 ATCCCTCAAGATCCCTCTACAGGAACTTTCAGGCAATGCTTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCT
 I P Q D R P T S T E R E K H M P V L R E R P E T V L I D L I Q R T K D A V R 302
 1027 CAGCTGGACAAATCTACAAATATGAAAGATGAAAGAAACTCTCTCCAGGAGGACACATAATGGACCCAGCTGAGCAAGGAAACAGCAGGAGGAAATCATGGTGGCC
 E L D N L Q Y T R K M K E L L F Q W H G P A V E A Q 2 3 3 E E Q D H G G C 340
 1141 CGGACAGGAAACAGTAAATAGCTTGGACCCATCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCT
 R T G T V N S V G S N Q S I P S N S I S A S S Q S S S V N S L P D A S D O K 379
 1255 AGTGAGCTAGACATCTGGAGGAGACCATACAGTGTGCTTAACTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCT
 S E L D M H E G D H T V M S N S S V I H E K P R E E N Y I E E G D P R T R A 416
 1368 TCAAGCTCCAGCTCTACCTCAAGTGTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCT
 S A P Q S P P Q V S R H K S H Y R N R E H P A T I R T A E L V T R O M Q E H 454
 1483 CAGCAGGACTCTGAACTTGGAGAACAGATGCTCTGGCTCTGAGGCGCACACCACTGAGGAGCTGACTCTGGAAATGAACTGAGGAGAAATGGAGGAGAT
 E Q D S E L R E Q M S G Y K P M R R 2 H 2 K 2 L M T L E N K L K A E M D E H 492
 1597 CGCTCTAGATTAGACAAGATTTGAAACTCTAGGAAACAAATTTCTCTGAAATGAAACACTTAAAGAAACACCTTCTGAAACAGGCTTCTGAAACAGACATGCAAGAACAT
 R D R D D K D E T Q R N N F A A M E R K I E R H 2 A E M E K E A R V M A 530
 1711 AACAGCAGGAAAAAATTCACACACATTCAGGCTAACAGAAGAAAGACTAAATAGCTTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCT
 N E E K K P 2 H I Q A Q 2 Q K R E Y S E R K R K E Q L K E 568
 1825 CAGCTGAAATCAAACAGGACACCTTAAAGAACAGGAAATCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCT
 E L N E N Q 3 T P K R E K 2 E W L S K Q K E N I 2 H F Q A B E E A N D E R R 606
 1939 CAAAGCAGTCTAGAGCTAGTGTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCT
 Q R Q 2 L E L C R R F K R R M S L G R H N I E 2 D L V F E E L N R R Q T Q 644
 2053 AAGGACTTAAACAATCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCT
 K O L E H A M L D L R Q H E S M Q E L E F R H I N T I Q K M R C E S T R E Q H 682
 2167 CAAACTGAGCTTCTAACCGCTGAAATCCATACAGAAAGGAAACGGGAACCTAAGACCCAAACATCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCT
 Q T E U T N Q S E Y N K R R E R L R K H V H E V R Q I P R S L K E L 720
 2281 CAAATAAAAACGCTTCTGGCTACCTGCAAAATCAACAGACAGTCAAAACCTTAAAGGAATCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCT
 Q I K K P 2 F D T C K 2 T R 2 Y K A 2 L E 2 T E 2 T E K S E H R A V L R 758
 2395 AGACTCTAGGGAAACAGACTGGAAAGTTGGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCT
 R U K E E Q T R K L A I L A E Q 2 D H S I N E E S T Q A E R R L D E A Q E A 796
 2509 GAACTCCAGGTTCTGAAAGTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCT
 E C Q V L K M Q L Q Q E L E L L N A Y Q S K I K M Q A E A Q H D R E L R E L 834
 2623 GAAACAAACGGGTCTCCCTTGGAGGACCACTCTGAGACAGAAAGCTTCAAGAGACAGATGTTGGCTTCTGAGCTCTGAGCTCTGAGCTCTGAGCTCTGAGCT
 E Q R V S L R R A L L E Q K I 2 Z E B M L A L Q N E R T I R S L L E R Q A 872
 2737 AGAGAAAATTCAGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCT
 R E I E A F D S E S H M R L G F S N M V L S N I S P E A F S H S Y P S A S S H 910
 2851 TCTCTACAAATCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCT
 S H N P T G G S G P H W G H P M G G T P Q A W G H P M Q G G P Q P W G H P S 948
 2965 GGGCCAAATGCAAGGGGATCTGGAGCTTGGAGCTTGGAGCTTGGAGCTTGGAGCTTGGAGCTTGGAGCTTGGAGCTTGGAGCTTGGAGCTTGGAGCTTGGAGCT
 G P M Q G V P R G S S I G V R N R S P Q A L R R T A S G G R T E Q G M S R S T 986
 3079 ACTCTCTACAAATACTCAATGGCTACACATCTCTAACATTAATATGAAAGTGGCAATTCCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCT
 S V T S Q I S N G S H M S ? T * * 1001
 3193 CAGCTCTGACTTGGTACTACCGGCTGGAACTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCT

FIG. 1

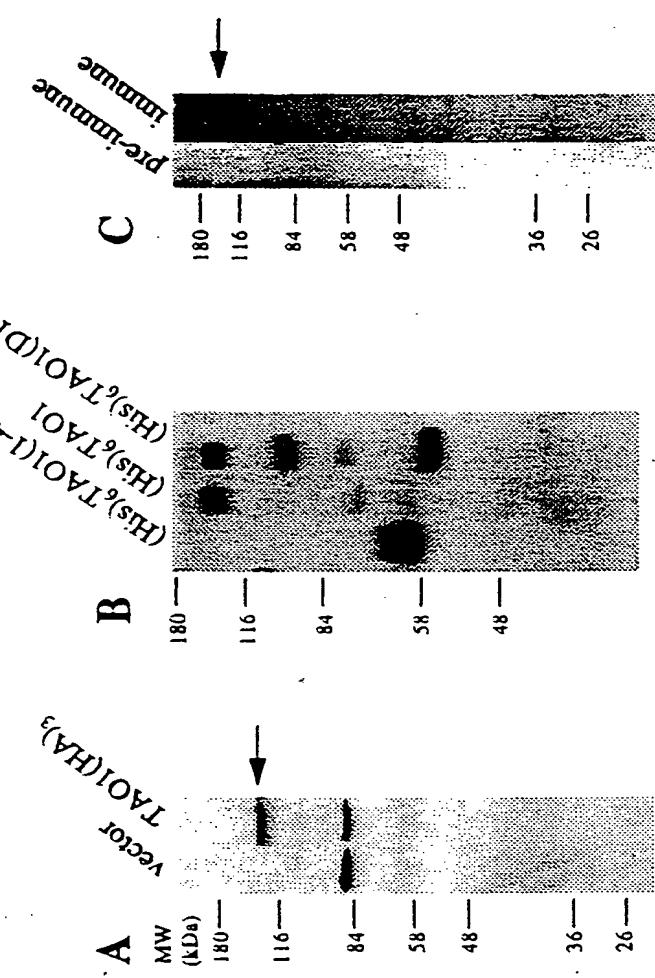
FIG. 2



FIGS. 3A and 3B



FIGS. 4A and 4B



FIGS. 5A-5C

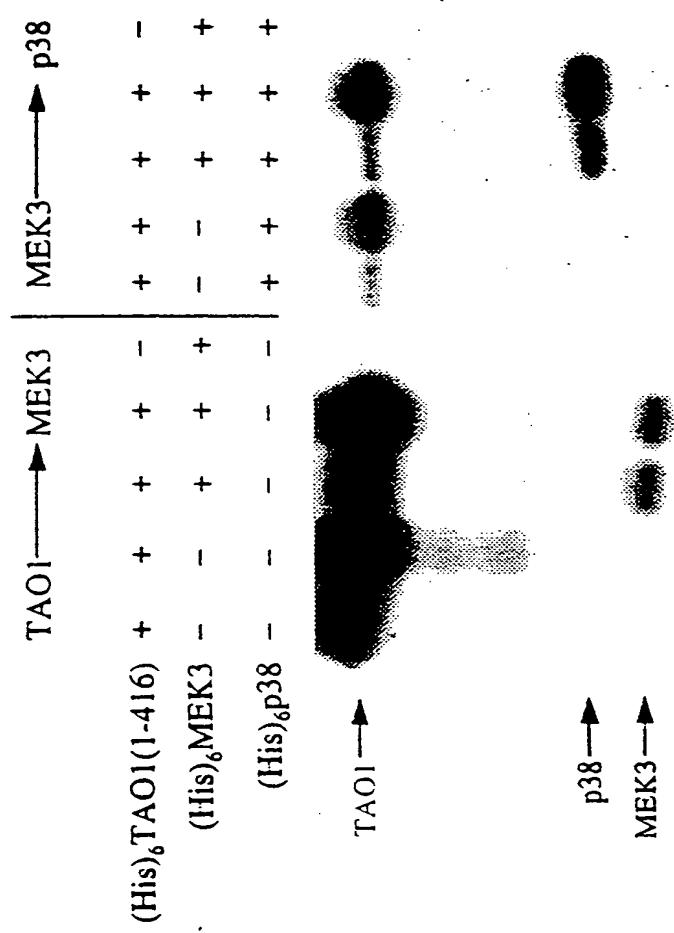


FIG. 6

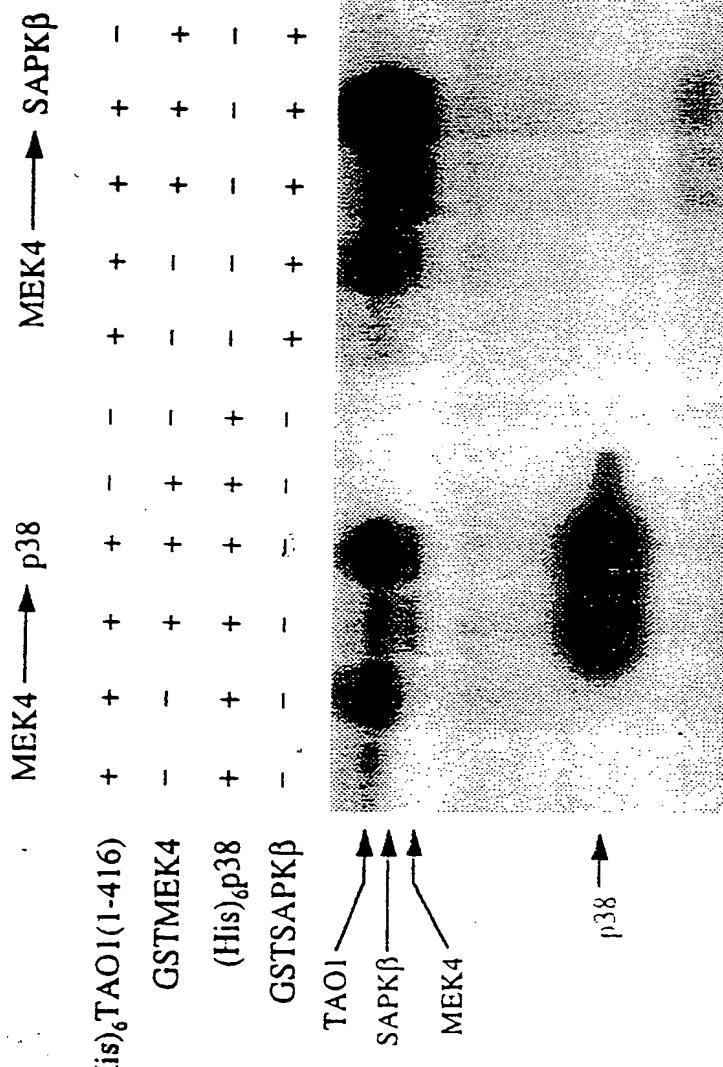


FIG. 7

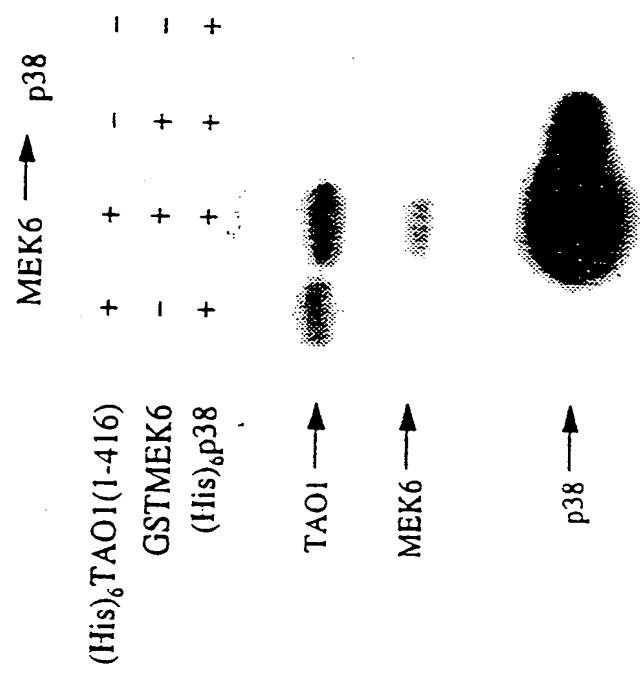
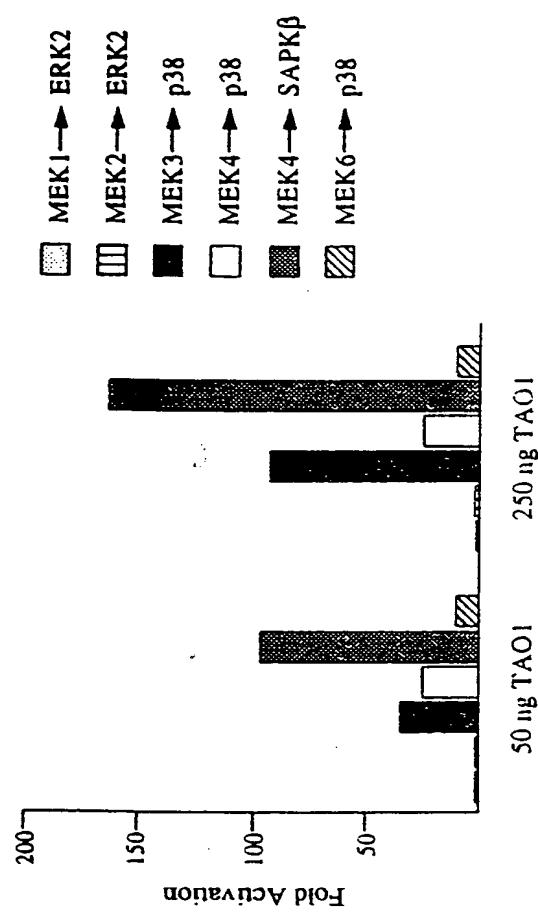


FIG. 8

FIG. 9



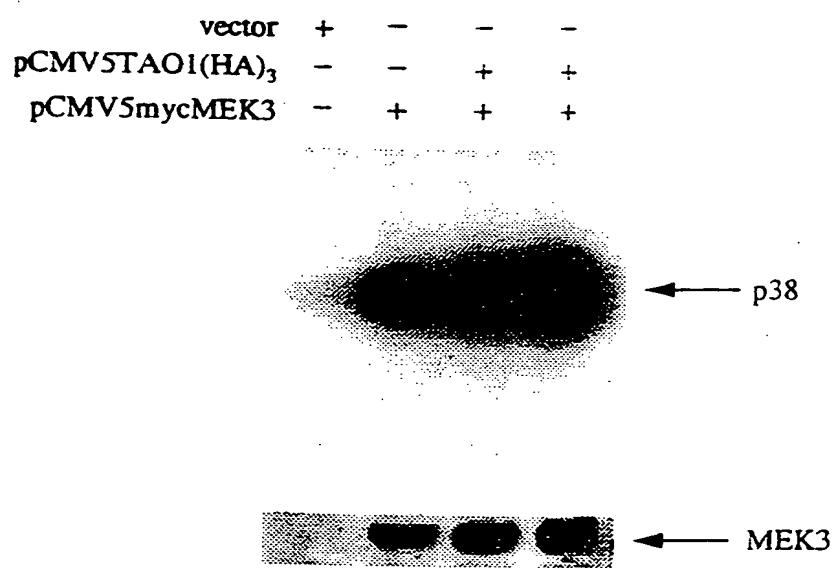


FIG. 10

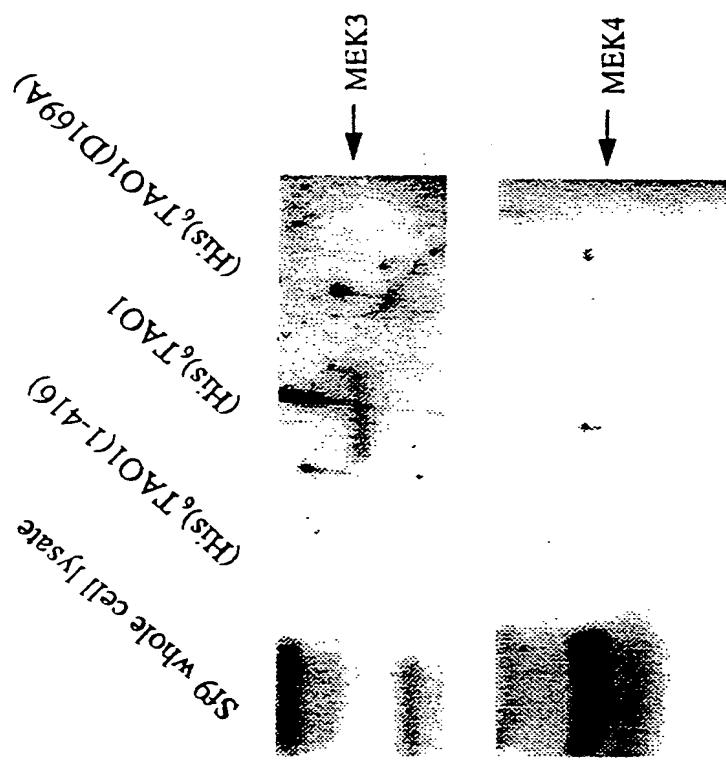


FIG. 11

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Query: 2341 AGGAATCACCTACTGGAGACTACACCAAAGAGTGAGCACAAAGCTGTTCTGAAAAGACTC 2400
Sbjct: 12 ACGANTCACCACTGGAGTTACTCCAAAGAAATGAGCACAAAACAATCTTAAAGACACTG 71

Query: 2401 AAGGAGGAACAGACTCGGAAGTTAGCCATCTGGCTGAGCAGTATGATCATAGCATTAAT 2460
Sbjct: 72 AAAGATGAGCAGACAAGAAAACCTGCCATTNGGCAGAGCAGTATGAACAGAGTATAAT 131

Query: 2461 GAAATGCTCTCCACACAAGCTCTGCCTTGGATGAAGCACAGGAAGCAGAATGCCAGGTT 2520
Sbjct: 132 GAAATGATGGCCTCTCANGCGTTACGGCTAGATGAGGCTCAAGAACAGAATGCCAGGCG 191

Query: 2521 TTGAAGATGCAGCTACAGCAGGAACCTGGAGCTGTTGAATGCATATCAGAGCAAAATCAAG 2580
Sbjct: 192 TTGAGGCTACAGCTCCAGCAGGAAATGGAGCTGCTCAACGCCCTACCAAGAGCAAAATCAAG 251

Query: 2581 ATGCAGGCTGAGGCCAACATGATCGAGAGCTTCGAGAGCTGGAACAAAGGGCTCCCTT 2640
Sbjct: 252 ATGCAAACAGAGGCACAACATGAACGTGAGCTCCAGAAGCTAGAGCAGAGAGTGTCTTG 311

Query: 2641 CGGAGAGCACTCTTAAACAGAAGATTGAAGAAAGAGATGTTGGCTTGCAGAATGAACGC 2700
Sbjct: 312 CGCAGAGCACACCTTGAGCAGAAGATTGAAGAGGAGCTGGCTGCCCTTCAGAAGGAACGC 371

Query: 2701 ACAGAACGAATACGTAGCCTGCTCGAGCGCCAGGCCAGAGAAATTGAAGCTTTT 2754
Sbjct: 372 AGCGAGAGAATAAGAACCTATTGGAAAGGCAAGAGCGAGAGATTGGAAACCTTT 425

FIG. 12

```

Query: 964 GAACAAACATGTGCTT ||||| AGTTCCCTCTGATGTAGGGCGATCTTGAGGGATTTCTGGA 905
Sbjct: 79  GAACAAAGTCATGCCTTAATAGTTCTGCTGATGTTGGCCTTCTGAGGTATTTCTGCA 138
Query: 904 GGCAAGAACATACAAAGTTCGAAAATAATCAGACCATTCAATTAGACTGTAGTGTAGGGG 845
Sbjct: 139 AGCAGTAATCAACAAATCTCCTAAAGGAGTCTGTCCATTCAATTAGACTGTAACTGTTGGG 198
Query: 844 ATTCACTTTGGGCTATGTGATATAAGGCACTCATTGCATTCAATTAAATAAGGAGGCT 785
Sbjct: 199 AGTCATTCTGGCAATGTGATATAAGGCACTCATTGCATTCAATTGTTGAAAAGGGCGGC 258
Query: 784 TCCTCTCGGCTAATTCAATACATGTTATTCCAAGAGACCATAACATCAACTTGCACATCAT 725
Sbjct: 259 TCCGTTCCGCCAATTCAATACAAAGTGTGATGCCAAGTGACCAAATATCAACTTCCCACAT 318
Query: 724 ATTGTCTTCATCCATGGCTAAAATTACTTCTGGGCCATCCAATATGGTGTCCCCACAA 665
Sbjct: 319 ACTGTCTTCATCCATAGCTAAGATCACCTCTGGAGCCATCCAGTAAGGTGTGCCACGA 378
Query: 664 AAGAATTGGCAGGG 651
Sbjct: 379 AGGAGTTGGCCAGG 392

```

FIG. 13

09636246 1164000

Query: 2792 ACCATGTTACTAAAACCTAATCTCATGCTTCAGAGTCAGAGCTCAATTCTCTGGCC 2733
Sbjct: 90 ACCAAATTCCQAAATCCCATCTGAGGCTCTCCATGTCAGAGCTCAATTCTCTCGCTCT 149

Query: 2732 TGGCGCTCGAGCAGGCTACGTATCGTTCTGCGTTCAATTCTGCAAAGCCAACATCTCT 2673
Sbjct: 150 TGCCTTCCAATAGGTTCTTATTCTCTCGCTGCCTCTGAAGGGCAGCCAGCTCC 209

Query: 2672 TCTTCATCTCTGTTCTAAAGAGTGCCTCCGAAGGGAGACCCTTGTTCCAGCTCTCGA 2613
Sbjct: 210 TCTTCATCTCTGCTCAAGGTGTGGCTGCGCAGAGACACTCTCTGCTCTAGCTCTGG 269

Query: 2612 AGCTCTCGATCATGTTGGCCTCAGCCTGCATCTGATTTGCTCTGATATGCATTCAAC 2553
Sbjct: 270 AGCTCACGTTCATGTTGTGCCCTGTTNGATCTGATTTGGNTCTGGTAGGCCTGAGC 329

Query: 2552 AGCTCCAGTTCTGCTGTAGCTGCATCTCAAAACCTGGCATTCTGCTTCTGTGCTTCA 2493
Sbjct: 330 AGCTCCATTCTGCTGGAGCTGTAGCCTCAAGGCCTGGCATTCTGCTTCTGAGCCTCA 389

Query: 2492 TCCAAACGCAGAGCTTGTGTGGAGAGCATTCTTAATGCTATGATCATACTGCTCAGCC 2433
Sbjct: 390 TCTAGCCGTAACGCTTGAGAGGCCATCAATTCAATTATACTCTGTTCAACTGCTCTGCC 449

Query: 2432 AAGATGGCTA 2423
Sbjct: 450 AAAATGGCAA 459

FIG. 14

A

query: 2248 CAGCAGCTAAGAGTTGAAGTCTAAAGAACTCCAAATAAAAAGCAGTTTCAGGATACC 2307
bjct: 3 CAACAGCAGAAAACCTAAAGGCCATGGAAATGCAAATTAAAAACAGTTTCAGGACACT 62
query: 2308 TGC AAAATTCAAACCAAGACAGTACAAAGCATTAGGAATCACCTACTGGAGACTACACCA 2367
bjct: 63 TGC AAAGTACAGACCAAACAGTATAAGCACTCAAGAATCACCAAGTTGGAAAGTTACTCCA 122
query: 2368 AAGAGTGAGCACAAAGCTGTTCTGAAAAGACTCAAGGAGGAACAGACTCGGAAGTTAGCC 2427
bjct: 123 AAGAATGAGCACAAAACAATCTTAAAGACACTGAAAGATGAGCAGACAAGAAAATTGCC 182
query: 2428 ATCTTGGCTG 2437
bjct: 183 ATTTTGGCAG 192

B

Query: 2437 GAGCAGTATGATCATAGCATTAAATGAAATGCTCTCCACACAAGCTCTGCGTTGGATGAA 2496
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Subject: 193 GAGCAGTATGAAACAGAGTATAAAATGAAATGATGGCCTCTCAAGCGTTACGGCTAGATGAG 252
||| |||
Query: 2497 GCACA 2501
|||
Subject: 253 GCTCA 257

FIG. 15A and 15B

FIG. 16

A

Query: 3228 GTGCATATGGTATATTTATTCTCTTTGTAAAGCGTTATGTTTGTGTTACTAATTGG 3287
|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Sbjct: 31 GTGCATATGGTATATTTATTCTCTTTGTAAAGCGTTATGTTTGTGTTACTAATTGG 90
|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Query: 3288 GATGTCATAGTATTTGGCTGCCGGG 3312
|||:|||||:|||||:
Sbjct: 91 GATGTCATAGTACTTGGCTGCCGGG 115

B

Query: 3200 CTCACTTGGGTACTACCGGGTGGAAAGCTGTGCATATGGTATATT 3245
|||:|||||:
Sbjct: 1 CTCACTTGGGTACTACAGTGTGGAAAGCTGAGTGCATATGGTATATT 46

FIG. 17A and 17B

Query: 739 GATGTATGGTCTCTTGGAAATAACATGTATTGAATTAGCCGAGAGGAAGCCTCCTTTATTT 798
Sbjct: 14 GATATTGGTCATTGGGTATCACGTGTATAGAGCTGGCGAACGTCGTCCACCAATTGTTTC 73
Query: 799 AATATGAATGCAATGAGTGCCTTATATCACATAGCCAAAATGAATCCCCTACACT 854
Sbjct: 74 AGTATGAATGCAATGTCTGCCCTCTACCATATTGCTAAAATGATCCTCCAACTCT 129

FIG. 18

A

Query: 526 CTCCAGGGATTAGCTTATTACATTCTCATACCATGATCCATAGAGATATCAAAGCAGGA 585
Sbjct: 449 ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Query: 586 AATATCCTCTGACAGAACCAAGGCCAAGTGAACCTGCTGACTTTGGATCTGCTTCCA 643
Sbjct: 509 AACGTGCTGCTCTGGAGCAGGGTGAATGTGAAGATGGCAGACTTCGGTGTGGCTGGCA 566

B

Query: 187 GATCCGGAAAAACTCTCACAGATCTCAGAGAAATGGCCATGGAGCTTGAGCAGTT 246
Sbjct: 119 GACCCAGAGGAACCTTCACCAAGCTTGACCGCATTGGCAAAGGCTCATTTGGGAGGTG 178
Query: 247 TATTTGCACGAGATGTGCGTACTAATGAAGTGGTGGCCATCAAGAAAAT 296
Sbjct: 179 TACAAGGGGATCGACAACCACACCAAGGAAGTGGTGGCCATCAAGATCAT 228

FIG. 19A and 19B

Query:	866	TCATTAGACTGTAGTGTAGGGGATTCACTTCTGGCTATGTGATATAAGGCACTCATTGCA	807
Subject:	100	TCAGGATTCTGGAGCTCTGGAGTTCCATTAGTGGCTATCAGATACAATGCCCTGAGTGG	159
Query:	806	TTCATATTAAATAAAGGAGGCTTCCTCTCGGCTAATTCAATACATGTTATTCCAAGAGAC	747
Subject:	160	TTTCACTTAAGGTAAGGGGGTTCACCTTCCACCATTTCAATTGCCATAATTCCAAGAGAC	219
Query:	746	CATACATCAACTTT	733
Subject:	220	CAGATATCAACTTT	233

FIG. 20